

FIG. 1

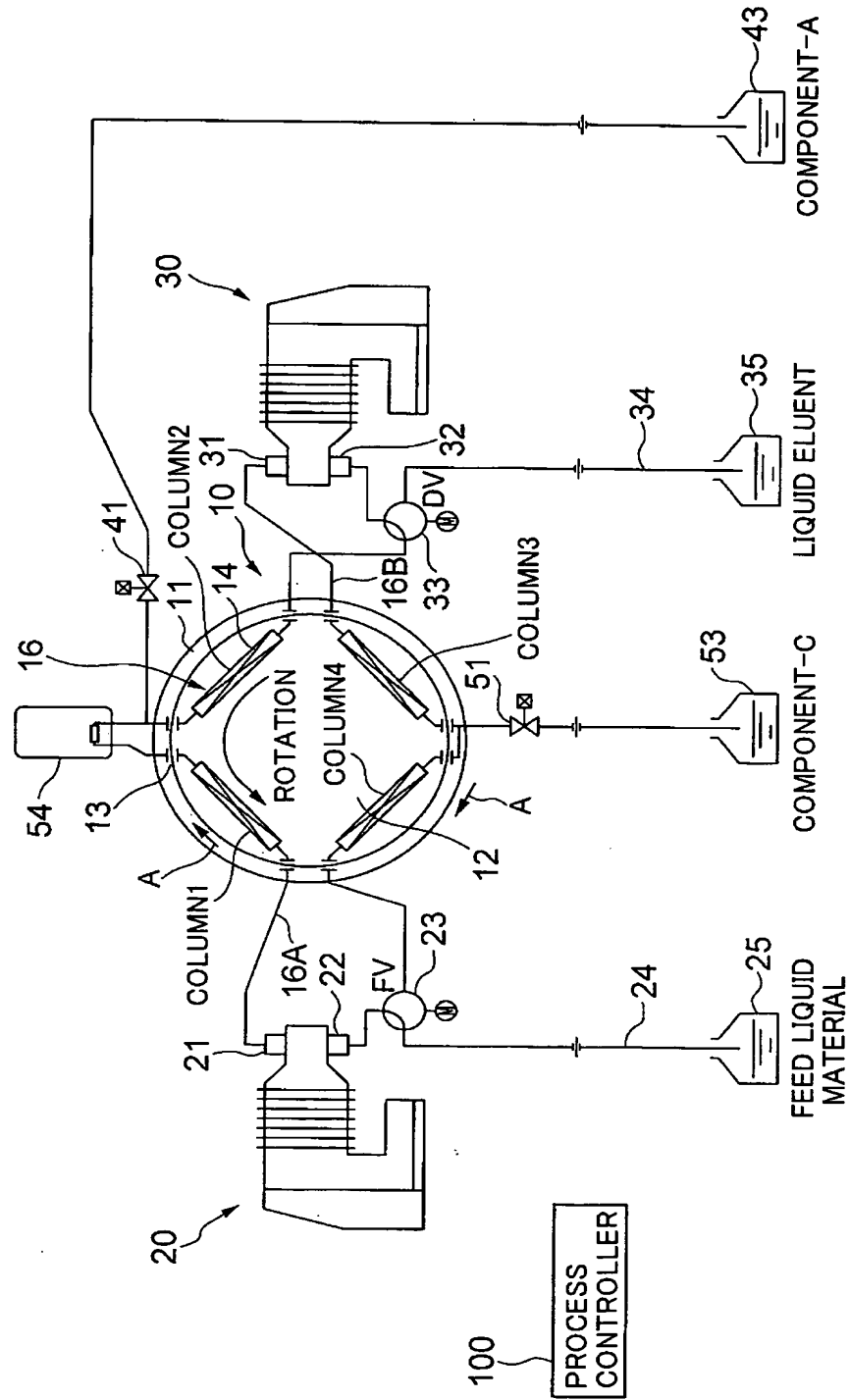


FIG. 2

STEP	STEP NAME	FIRST SWITCHING VALVE	FIRST PUMP	COMPONENT-A EXTRACTION VALVE	SECOND SWITCHING VALVE	SECOND PUMP	COMPONENT-C EXTRACTION VALVE
1	CIRCULATION	CIRCULATION	OPERATION	CLOSE	CIRCULATION	OPERATION	CLOSE
2	D-INJECTION, C-EXTRACTION	CIRCULATION	STOP	CLOSE	INJECTION	OPERATION	OPEN
3	D-INJECTION, A-EXTRACTION	CIRCULATION	OPERATION	OPEN	INJECTION	OPERATION	CLOSE
4	F-INJECTION, A-EXTRACTION	INJECTION	OPERATION	OPEN	CIRCULATION	STOP	CLOSE
5	ROTATION OF COLUMN	CIRCULATION	STOP	OPEN	CIRCULATION	STOP	CLOSE
6	DISCHARGE OF RESIDUAL LIQUID	CIRCULATION	OPERATION	OPEN	INJECTION	OPERATION	CLOSE

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FIG. 3

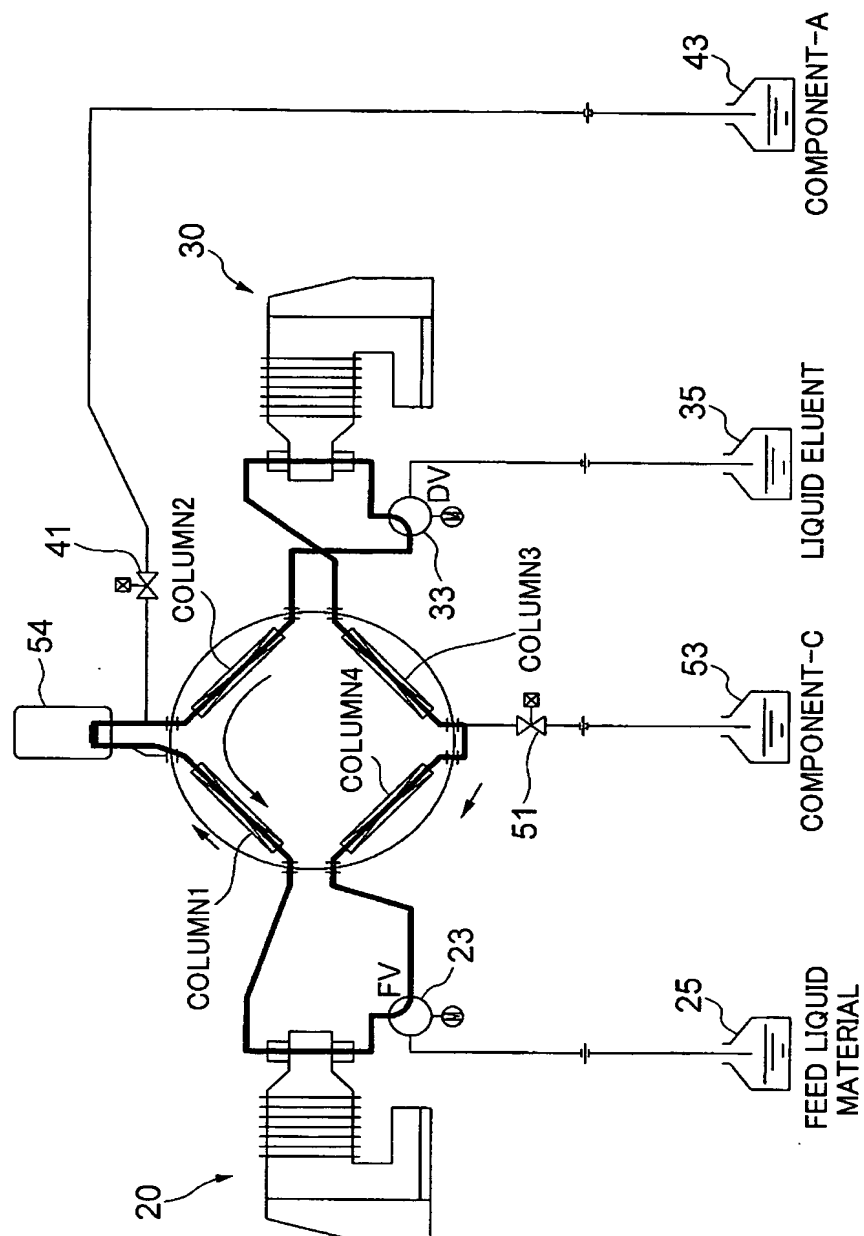


FIG. 4

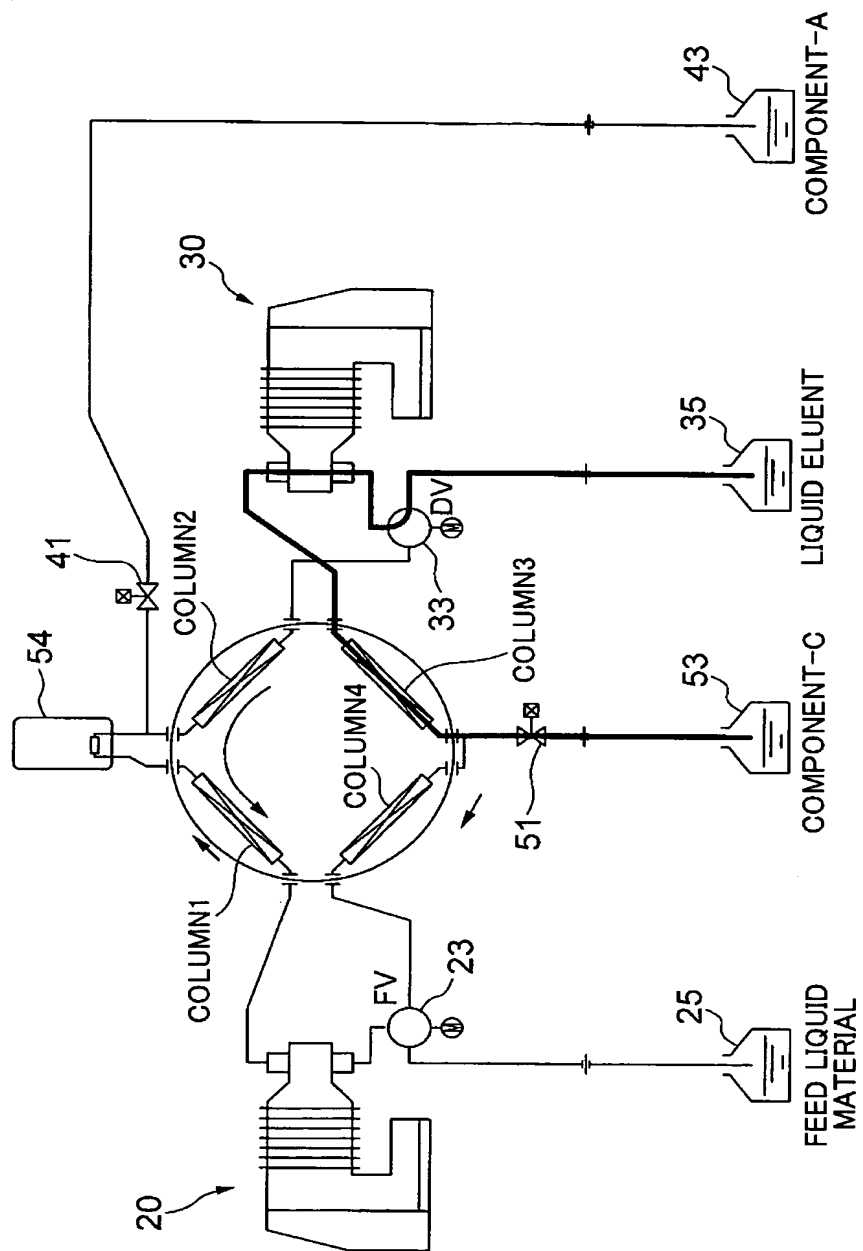


FIG. 5

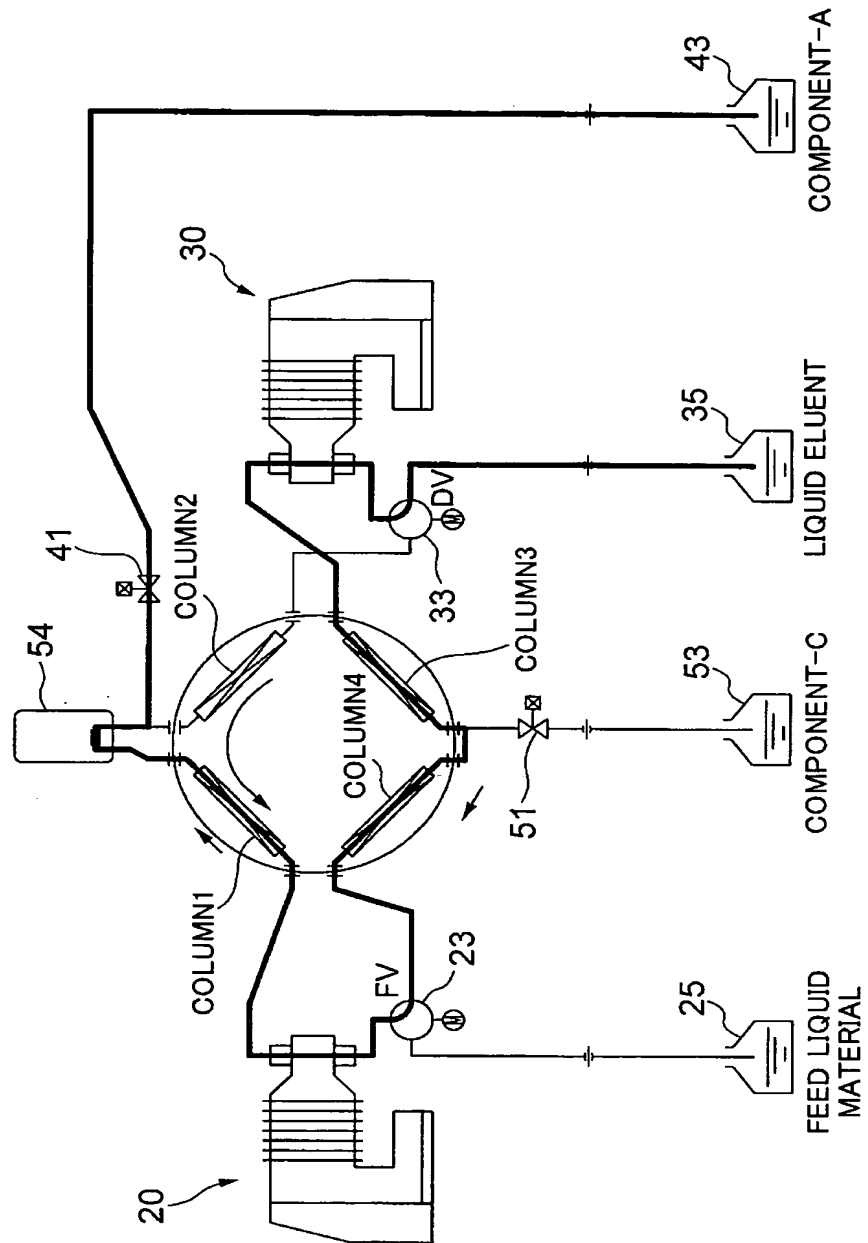


FIG. 6

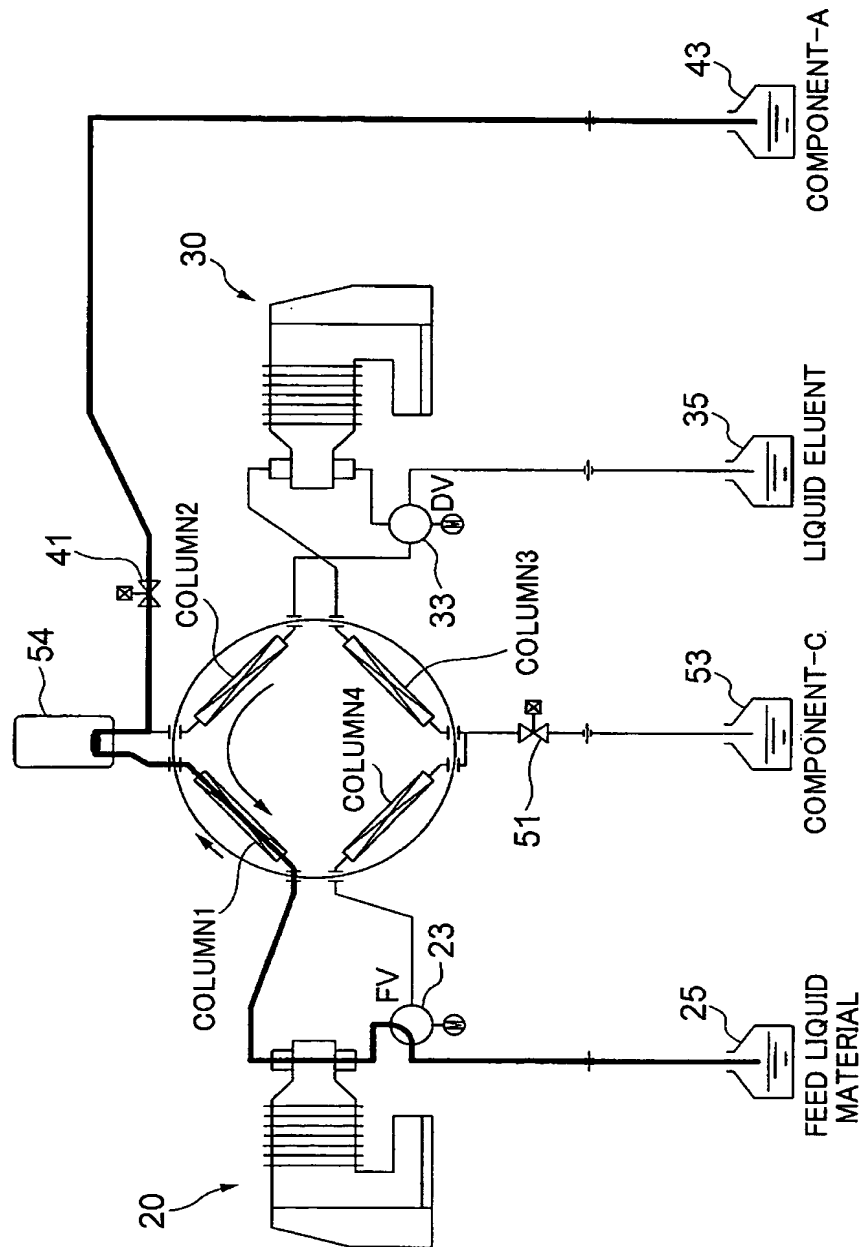


FIG. 7

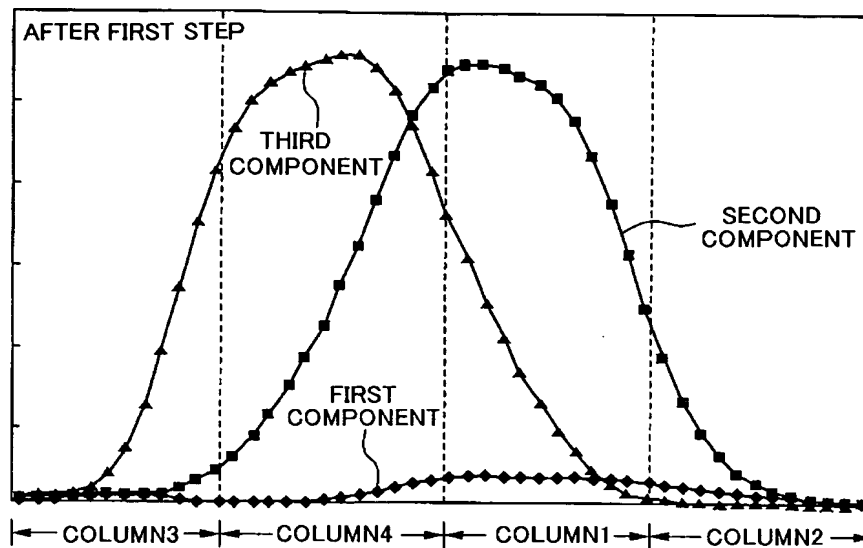


FIG. 8

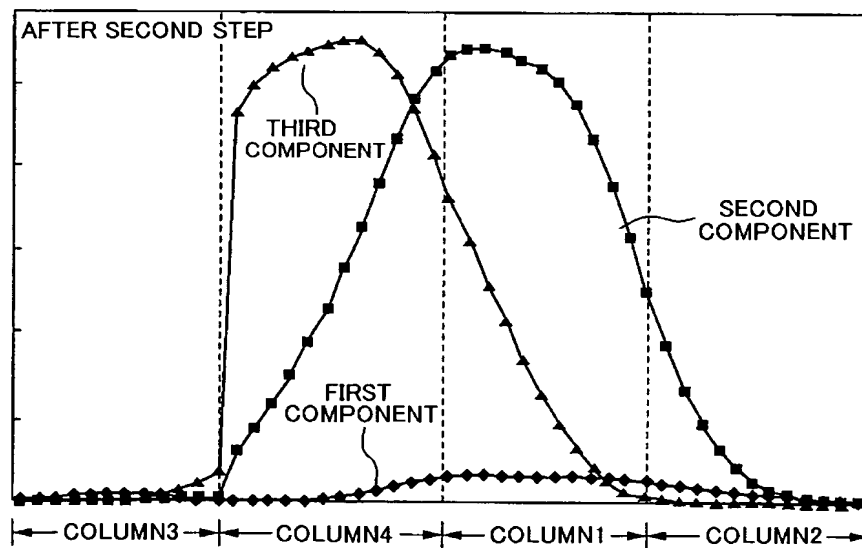


FIG. 9

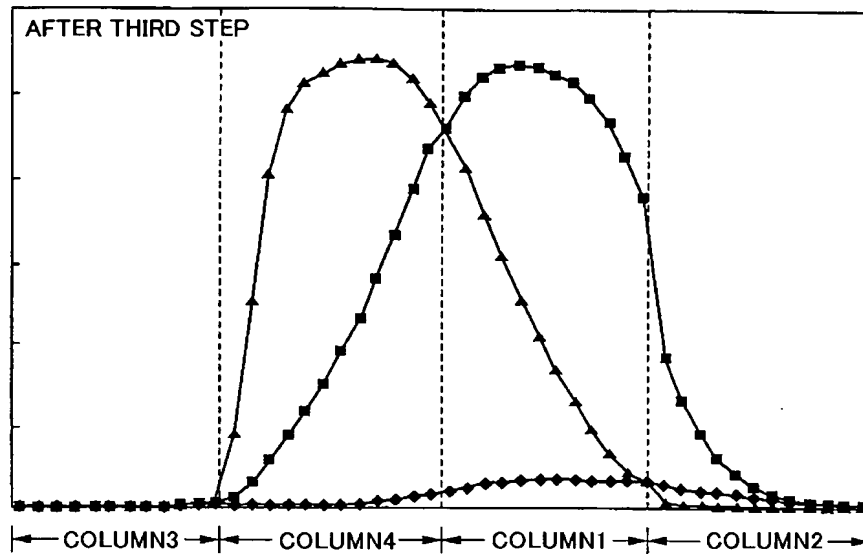


FIG. 10

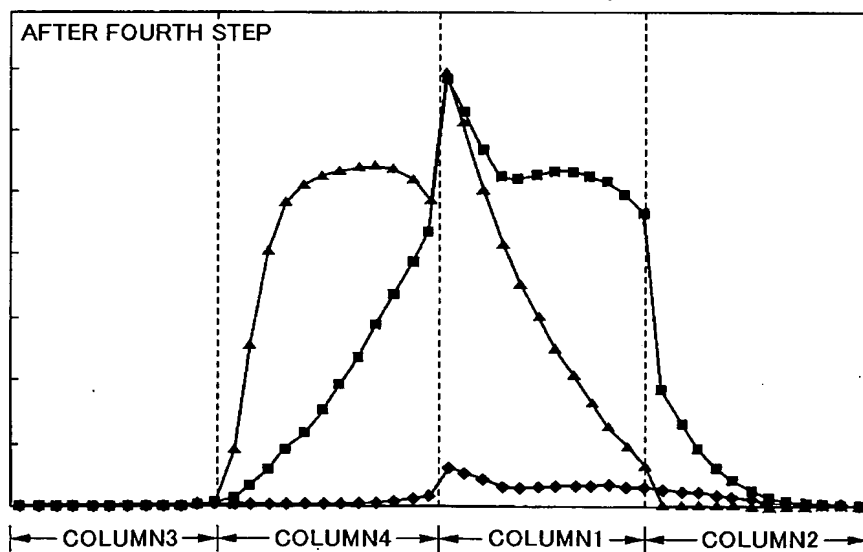


FIG. 11

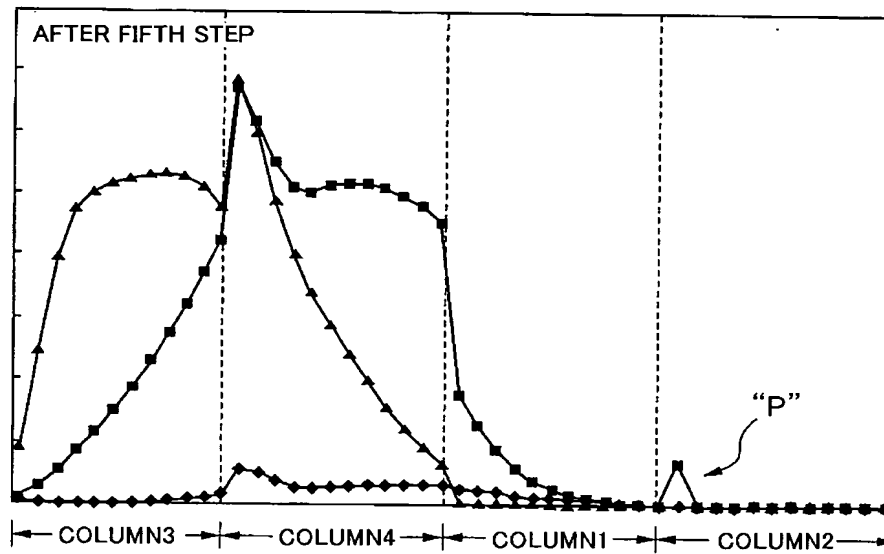


FIG. 13

STEP	STEP NAME	FIRST SWITCHING VALVE	FIRST PUMP	COMPONENT-A EXTRACTION VALVE	SECOND SWITCHING VALVE	SECOND PUMP	COMPONENT-C EXTRACTION VALVE
1	D-INJECTION, A-EXTRACTION	CIRCULATION	OPERATION	OPEN	INJECTION	OPERATION	CLOSE
2	F-INJECTION, A-EXTRACTION	INJECTION	OPERATION	OPEN	CIRCULATION	STOP	CLOSE
3	CIRCULATION	CIRCULATION	OPERATION	CLOSE	CIRCULATION	OPERATION	CLOSE
4	D-INJECTION, C-EXTRACTION	CIRCULATION	STOP	CLOSE	INJECTION	OPERATION	OPEN
5	ROTATION OF SEPARATION COLUMN	CIRCULATION	STOP	CLOSE	CIRCULATION	STOP	CLOSE

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FIG. 14A

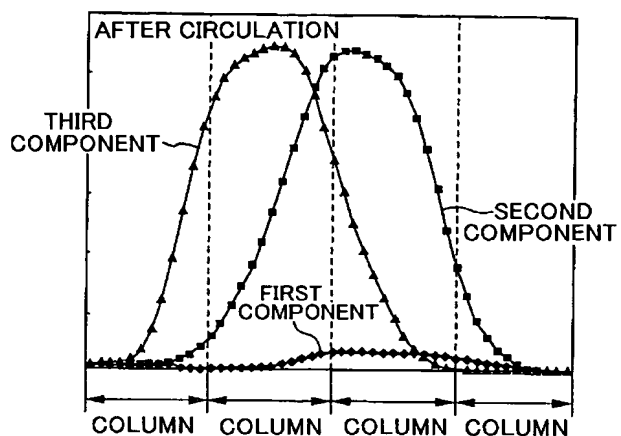


FIG. 14B

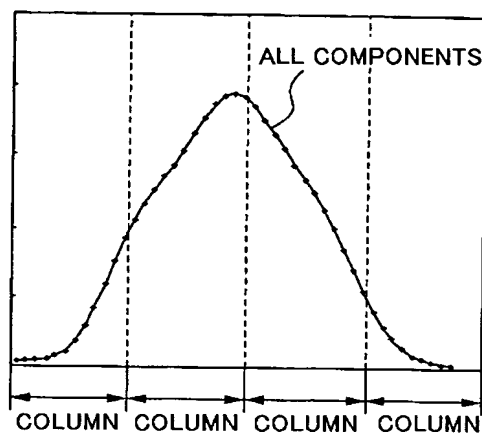


FIG. 15A

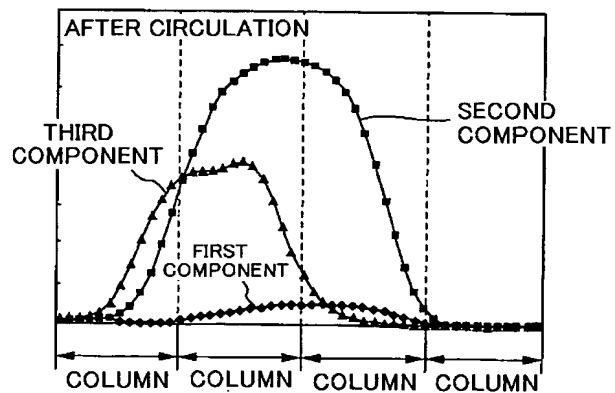


FIG. 15B

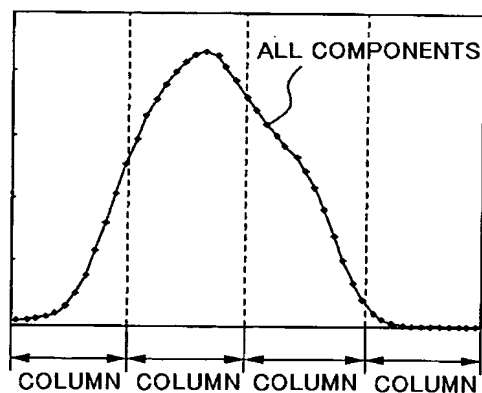


FIG. 16A

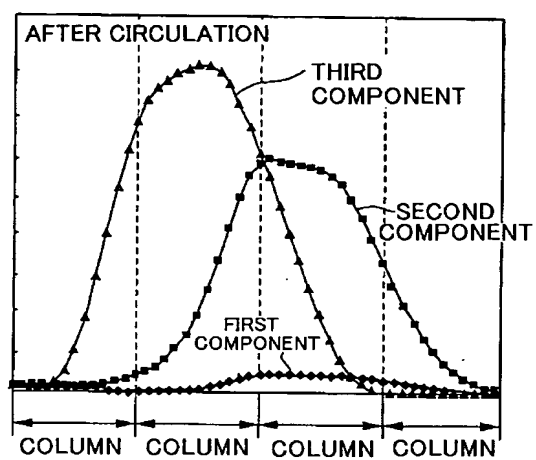


FIG. 16B

